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L1 9601 345/CLAS
=> s l1 and golf
8927 GOLF
L2 12 L1 AND GOLF
=> d 1-12

1. 5,146,557, Sep. 8, 1992, User interface for a **golf** green and a **golf** putt modelling system; Boris Yamrom, et al., 395/161; **345/116**, **121**; 364/410; 434/252, 307R [IMAGE AVAILABLE]

2. 5,091,969, Feb. 25, 1992, Priority order of windows in image processing; Shigesumi Kuwashima, 382/48; **345/120**; 382/30, 54 [IMAGE AVAILABLE]

3. 4,711,543, Dec. 8, 1987, TV animation interactively controlled by the viewer; Preston E. Blair, et al., 352/87; **345/156**; 352/50, 51, 52 [IMAGE AVAILABLE]

4. 4,355,805, Oct. 26, 1982, Manually programmable video gaming system; Ralph H. Baer, et al., 273/85G, 313, DIG.28; **345/145**, **157** [IMAGE AVAILABLE]

5. 4,110,792, Aug. 29, 1978, Mobile information display system; Douglas A. Long, et al., 348/383; **345/55**; 348/798 [IMAGE AVAILABLE]

6. 3,921,161, Nov. 18, 1975, Preprogrammed television gaming system; Ralph H. Baer, 273/85R, DIG.28; **345/156**; 348/121, 553; 360/29, 33.1, 79 [IMAGE AVAILABLE]

7. RE 28,598, Oct. 28, 1975, TELEVISION GAMING APPARATUS AND METHOD; Ralph H. Baer, et al., 273/85G; 250/549; 273/85R, DIG.28; 315/377; **345/156**; 348/553, 563 [IMAGE AVAILABLE]

8. RE 28,507, Aug. 5, 1975, Television gaming apparatus; William T. Rusch, **345/184**; 273/85R, DIG.28; 315/377; **345/157**; 348/553, 563 [IMAGE AVAILABLE]

9. 3,809,395, May 7, 1974, TELEVISION COMBAT GAME; Gordon H. Allison, Jr., et al., 273/313, 85G, 343, DIG.28; **345/156**; 348/121, 553 [IMAGE AVAILABLE]

10. 3,778,058, Dec. 11, 1973, METHOD OF EMPLOYING A TELEVISION RECEIVER FOR ACTIVE PARTICIPATION; William T. Rausch, 273/85R, 88, 434, DIG.28; 340/323R; **345/156** [IMAGE AVAILABLE]

11. 3,659,285, Apr. 25, 1972, TELEVISION GAMING APPARATUS AND METHOD; Ralph H. Baer, et al., 273/85G; 250/549; 273/85R, DIG.28; 315/30; **345/157**; 348/121, 553 [IMAGE AVAILABLE]

12. 3,659,284, Apr. 25, 1972, TELEVISION GAMING APPARATUS; William T. Rusch, 273/85G, 85R, 185A, DIG.28; 315/30; **345/161**; 348/121, 553 [IMAGE AVAILABLE]

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06-15022 Jan. 25, 1994 L2: 1 of 7

GOLF SCORE RECORDER AND SCORE DISPLAY METHOD USING THE SAME

INVENTOR: OSAMU FUKUYA
ASSIGNEE: OSAMU FUKUYA, et al. (90)
APPL NO: 03-233946
DATE FILED: Aug. 20, 1991
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: C1192
ABS VOL NO: Vol. 18, No. 219
ABS PUB DATE: Apr. 20, 1994
INT-CL: A63B 71*06; G01S 11*02; //G01S 5*14

ABSTRACT:

PURPOSE:To store a distance a driven ball has covered and a relationship between the distance and the type of a device club used by measuring and storing the position of a device by means of a **GPS** receiver each time when an operation part is operated by a golfer at a tee-shot position and a position to which the ball is driven.

CONSTITUTION:The body of the this recorder connected to a console A incorporates a **GPS** receiver, a microcomputer, an IC memory, an antenna, etc., the CPS receiver being used for measuring a direction by means of differential navigation system. Various informations are inputted by the operation of an operation part 10 (key button) and transmitted to the direction measuring part 30 (**GPS** receiver) and a storage part 40, an arithmetic part 50 performs specific calculation by the use of data stored in the storage part 40 and transmits the result to the storage part 40. The data stored in the storage part 40 is displayed on a liquid crystal panel 20 on request. When the start of tee- shot is inputted, the position of the tee-shot is measured to be stored, and when a shot-button is depressed at the position where the driven ball has reached, the reached position is measured and stored.

05-164833 Jun. 29, 1993 L2: 2 of 7

VEHICLE MANAGEMENT DEVICE AND METHOD

INVENTOR: TADASHI KANZAKI, et al. (3)
ASSIGNEE: TAISEI CORP, et al. (60)
APPL NO: 03-351743
DATE FILED: Dec. 16, 1991
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: P1629
ABS VOL NO: Vol. 17, No. 566
ABS PUB DATE: Oct. 14, 1993
INT-CL: G01S 5*14

ABSTRACT:

PURPOSE:To automate various construction works by installing on a vehicle a global position system(**GPS**) receiver, which receives electric waves from a plurarity of **GPS** satellites to measure the three-dimensional position coordinates of the vehicle, which are then recorded or sent to a management center for use for construction management.

CONSTITUTION:For example, for management of earthworks such as land reclamation or the construction of **golf** courses or roads, a **GPS** receiver installed on a vehicle is moved in an investigated area and receives electric waves from four or more **GPS** satellites to record or analyze received information to calculate three-dimensional coordinate data for earthworks. This geometric data for earthworks is processed by a computer to manage the completed amount during or after construction. Only the movement of the vehicle allows the shape of earthwork surfaces to be accurately and automatically determined without the help of specialists such as surveyors. Various output figures and tables obtained from geometric data can be used to quickly and accurately manage the completed amount during or after construction without depending upon man power.

05-46079 Feb. 26, 1993 L2: 3 of 7

GOLF CART POSITION DISPLAY SYSTEM

INVENTOR: YOICHIRO TSUDA, et al. (1)
ASSIGNEE: PIONEER ELECTRON CORP, et al. (10)
APPL NO: 03-201954
DATE FILED: Aug. 12, 1991
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: P1565
ABS VOL NO: Vol. 17, No. 341
ABS PUB DATE: Jun. 28, 1993
INT-CL: G09B 29*10; A63B 55*08; A63B 71*06

ABSTRACT:

PURPOSE:To easily grasp the movement path of a **golf** cart on a **golf** course by displaying an image on a display unit while the movement track of the **golf** card is superimposed on the map of the **golf** course in specific pattern.

CONSTITUTION:A CPU 7 calculates the travel azimuth of the card from the output of an azimuth sensor 1 at a specific period by timer interruption, and also finds longitude and latitude data indicating the current position coordinates of its own **golf** cart from a travel distance and the travel azimuth or the output of a **GPS**(Global Positioning System) device 4 by interruption at intervals of a constant distance travel based on the output data of a distance sensor 3 and stores them as current place data in a RAM 9. The map data on a hole area including the current position coordinates are read out of a CD-ROM and supplied to a display device 16. Consequently, the movement path of the **golf** card can be grasped, so respective holes are put in good condition according to the obtained movement path, so that the **golf** card can smoothly travel.

05-19035 Jan. 26, 1993 L2: 4 of 7
METHOD FOR MEASURING **GOLF** DISTANCE UTILIZING SATELLITE

INVENTOR: MITSUYOSHI SUGIMOTO
ASSIGNEE: MITSUYOSHI SUGIMOTO
APPL NO: 03-195704
DATE FILED: Jul. 10, 1991
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: P1549
ABS VOL NO: Vol. 17, No. 290
ABS PUB DATE: Jun. 3, 1993
INT-CL: G01S 5*14

ABSTRACT:

PURPOSE:To enable a distance to a green to be found without any cooperation from a golfing club by inputting the distance from a teeing position to the green to a portable receiver.

CONSTITUTION:A hole number and a hole distance are input to a portable receiver 1 which is being carried for enabling them to be stored in a memory portion 15. The receiver 1 receives an electric wave from a **GPS** satellite 2 at a reception portion 12 through a **GPS** antenna 11 so that a user can confirm a location without transmitting the electric wave and a central-processing portion 13 performs processing so that the position becomes a starting point. Then, when power is turned on at a point where a **golf** ball dropped, the electric wave from the satellite 2 enters the processing portion 13 from the antenna 11 through the reception portion 12, a current position can be found according to calculation at the processing portion 13, and at the same time a distance from a teeing position can be calculated. Then, a number of a hole distance which is stored in a memory portion 15 is read into the processing portion 13, thus enabling a remaining distance to the green to be calculated.

04-335178 Nov. 24, 1992 L2: 5 of 7

GOLF FIELD GUIDING SYSTEM

INVENTOR: KANYA MATSUMOTO, et al. (1)
ASSIGNEE: PIONEER ELECTRON CORP, et al. (20)
APPL NO: 03-105385
DATE FILED: May 10, 1991
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: P1518
ABS VOL NO: Vol. 17, No. 182
ABS PUB DATE: Apr. 8, 1993
INT-CL: G01S 5*14

ABSTRACT:

PURPOSE:To obtain a system capable of giving information concerning the present position etc., to a **golf** player in a **golf** field by applying the concept of a **GPS** system which is related to a **golf** field guiding system and further in detail, related to one to which the concept of a **GPS** system is applied.

CONSTITUTION:Provided in a **golf** field guiding system are a wave generation means 101 set in the vicinity of a **golf** field and a **GPS** position measurement means 102 to measure and indicate externally the present self-position by receiving the wave from the wave generation means 101-1 or the **GPS** satellite 101-2. The **GPS** position measurement means 102 has in the constitution a **GPS** receiver means 103 to receive wave from the wave generation means 101-1 or the **GPS** satellite 101-2, an arithmetic means 104 to calculate the present self-position using the wave data received with the **GPS** receiver means 103 and output the position information and an indicator means 105 to externally indicate the information indicating the present position based on the position measurement information.

04-20360 Jan. 23, 1992 L2: 6 of 7

METHOD FOR RECORDING SCORE OF **GOLF**

INVENTOR: OSAMU FUKUYA
ASSIGNEE: OSAMU FUKUYA, et al. (60)
APPL NO: 02-123898
DATE FILED: May 14, 1990
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: C0934
ABS VOL NO: Vol. 16, No. 176
ABS PUB DATE: Apr. 27, 1992
INT-CL: A63B 71*06; G01S 5*14; G06F 15*20

ABSTRACT:

PURPOSE:To obtain the fundamental data for improving and obtaining a technique by measuring a flying distance of a player by applying a receiver for a global position measuring system, and generating a record together with the kind of a used club.

CONSTITUTION:First of all, when a golfer standing on a teeing ground of each hole inputs the hole number, its position is derived by a **GPS** receiver and saved in a memory. After hitting a tee shot, by depressing a positioning button at every place to which a **golf** ball flies, a flying distance is calculated internally from a relative position to a position of the previous one nit and saved in the memory, and on the other hand, the number of hits is also counted. When the ball reaches the vicinity of a green, only the hit number count is instructed, and after green-on, the number of pats is inputted. At the time of O.B., a lost ball, etc., thenumber of hits of a penalty is inputted. After a play is finished, data (the hole number, a score, the kind of a selected club and a flying distance at that time, existence of a penalty, the number of pats, etc.) recorded in the memory are generated as a record by an output device in a clubhouse.

03-134715 Jun. 7, 1991 L2: 7 of 7
GOLF CART OPERATION MANAGING METHOD AND MANAGING SYSTEM THEREFOR

INVENTOR: AKIRA TAKAHATA, et al. (3)
ASSIGNEE: HITACHI CABLE LTD, et al. (20)
APPL NO: 01-272656
DATE FILED: Oct. 19, 1989
PATENT ABSTRACTS OF JAPAN
ABS GRP NO: P1248
ABS VOL NO: Vol. 15, No. 352
ABS PUB DATE: Sep. 6, 1991
INT-CL: G05D 1*02; G01S 5*02

ABSTRACT:

PURPOSE:To smoothly advance the whole play by attaching a receiving antenna being receivable from an artificial satellite to each **golf** cart, bringing its receiv ing result to arithmetic processing in a centralized control station, and under standing exactly a two-dimensional position on the ground in a **golf** hole layout of the cart.

CONSTITUTION:A global position measuring system (**GPS**) radio wave receiving antenna 3 which can receive a time signal radio wave 2 transmitted from an artificial satellite 1 is attached to a **golf** cart 20. In such a state, a receiving wave received by each **golf** cart 20 is received concentrically by a centralized control station 30, and in the centralized control station 30, the receiving wave sent from the cart 20 running in a **golf** course is brought to arithmetic processing and a two-dimensional position of the cart 20 is derived, it is dis played on a **golf** course layout picture, and based thereon, a necessary step such as an operation command, etc., is executed. In such a way, a safe and smooth in-course management can be executed.

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L2             7 S GOLF AND GPS
L3             4 S GOLF AND GLOBAL POSITION###
L4             4 S L2 AND L3

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9415 GOLF
334 BETTING
7406 BET
L1 33 GOLF AND (BETTING OR BET)

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1. 5,374,060, Dec. 20, 1994, Method of wagering at a racetrack; Nelson
L. Goldberg, 273/139, 138A [IMAGE AVAILABLE]

2. 5,346,213, Sep. 13, 1994, **Golf** club head; Magoichi Yamada, 273/78, 173 [IMAGE AVAILABLE]

3. 5,333,870, Aug. 2, 1994, Airborne overspin putter improving ball
accuracy; Verne W. Stevenson, Jr., 273/164.1, 167F, 169 [IMAGE AVAILABLE]

4. 5,332,218, Jul. 26, 1994, Automated **golf** sweepstakes game; Trevor
C. Lucey, 273/138A, 139, 439 [IMAGE AVAILABLE]

5. 5,283,734, Feb. 1, 1994, System and method of communication with
authenticated wagering participation; Henry Von Kohorn, 364/412; 273/138A; 902/23 [IMAGE AVAILABLE]

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6. 5,263,723, Nov. 23, 1993, Interactive contest system; Timothy R.
Pearson, et al., 273/439, 85R, 88, 94; 379/92, 93, 95 [IMAGE AVAILABLE]

7. 5,234,218, Aug. 10, 1993, Dice **golf** game; Richard V. LaRocca,
273/245 [IMAGE AVAILABLE]

8. 5,227,874, Jul. 13, 1993, Method for measuring the effectiveness of
stimuli on decisions of shoppers; Henry Von Kohorn, 348/2, 13; 364/402;
455/2, 4.2 [IMAGE AVAILABLE]

9. 5,213,333, May 25, 1993, Word association game; Joseph J. Petrovich,
et al., 273/243, 272 [IMAGE AVAILABLE]

10. 5,095,430, Mar. 10, 1992, **Golf** cart computer with cartridge
storage; Anthony P. Bonito, et al., 364/410; 273/32R [IMAGE

AVAILABLE]

11. 5,057,915, Oct. 15, 1991, System and method for attracting shoppers to sales outlets; Henry Von Kohorn, 348/13; 273/85R; 348/8; 455/2, 5.1 [IMAGE AVAILABLE]

12. 5,043,889, Aug. 27, 1991, Automated **golf** sweepstakes game; Trevor C. Lucey, 364/412; 273/138A [IMAGE AVAILABLE]

13. 5,034,807, Jul. 23, 1991, System for evaluation and rewarding of responses and predictions; Henry Von Kohorn, 348/13; 455/2, 4.1 [IMAGE AVAILABLE]

14. 5,018,736, May 28, 1991, Interactive game system and method; Timothy R. Pearson, et al., 273/439, 85R, 88, 94, 460; 364/410; 379/92, 93, 95, 97 [IMAGE AVAILABLE]

15. 5,002,750, Mar. 26, 1991, Process for producing alumina-based fiber; Hidekimi Kadokura, et al., 423/625, 327.1 [IMAGE AVAILABLE]

16. 4,960,278, Oct. 2, 1990, Golfer's combined divot repair and distance measuring device; Melvin F. Hainey, 273/32B; 33/760, 767; 273/DIG.21; D10/62, 70, 72 [IMAGE AVAILABLE]

17. 4,930,789, Jun. 5, 1990, Casino board game; Diane F. Harris, et al., 273/256, 141R, 274 [IMAGE AVAILABLE]

18. 4,910,677, Mar. 20, 1990, **Golf** score recording system and network; Joseph W. Remedio, et al., 364/410; 273/32R, 435, 439; 364/411 [IMAGE AVAILABLE]

19. 4,890,843, Jan. 2, 1990, Board game having master course and regional games; Lionel Chauve, 273/246, 244, 245, 254, 256, 274 [IMAGE AVAILABLE]

20. 4,805,913, Feb. 21, 1989, Device for developing **golf** ball address stance; Roger L. Bott, 273/187R, 187.1, 200B, DIG.30 [IMAGE AVAILABLE]

21. 4,764,666, Aug. 16, 1988, On-line wagering system with programmable game entry cards; Daniel R. Bergeron, 235/380, 375; 273/138A, 139;

D18/41
[IMAGE AVAILABLE]

22. 4,666,160, May 19, 1987, Apparatus for playing; Clarence Q. Hamilton, 273/242 [IMAGE AVAILABLE]

23. 4,621,813, Nov. 11, 1986, **Golf** club set; Karsten Solheim, 273/77A, 169 [IMAGE AVAILABLE]

24. 4,611,810, Sep. 16, 1986, **Golf** ball; Toshihiko Kamata, et al.,
273/218, DIG.1 [IMAGE AVAILABLE]

25. 4,572,690, Feb. 25, 1986, Gripping composition dispenser and gripping composition therefor; Daniel F. Savanuck, 401/200; 424/64, 65,
69 [IMAGE AVAILABLE]

26. 4,569,526, Feb. 11, 1986, Vectorial and Mancala-like games, apparatus and methods; Clarence Q. Hamilton, 273/242, 237, 259, 284, 287
[IMAGE AVAILABLE]

27. 4,339,339, Jul. 13, 1982, Hydrostatically damping and shock absorbing non-vulcanizable polysiloxane and boron compound for mechanical
energy absorption; Jeremi Maciejewski, 252/75, 78.3; 525/474, 477; 528/30; 556/402 [IMAGE AVAILABLE]

28. 4,322,610, Mar. 30, 1982, Recording device for golfer; Richard C.
Randolph, 235/114 [IMAGE AVAILABLE]

29. 4,053,155, Oct. 11, 1977, Multiple-game game board with **golf**
putting selecting means; Ralph S. Williams, 273/87C, 87R, 119R, 123R,
127R, 180 [IMAGE AVAILABLE]

30. 3,874,584, Apr. 1, 1975, Forecasting apparatus; Terence Patrick
Grattan Foley, 234/128; 83/27; 101/26; 234/131; 273/138A; 346/81; 377/4
[IMAGE AVAILABLE]

31. 3,864,626, Feb. 4, 1975, METHOD AND APPARATUS FOR EVALUATING PROPERTIES OF MATERIALS; Alexander F. MacLean, et al., 324/663, 439, 514,
672, 686 [IMAGE AVAILABLE]

32. 3,859,187, Jan. 7, 1975, ELECTROLYTIC PROCESS FOR THE SURFACE MODIFICATION OF HIGH MODULUS CARBON FIBERS; Melvin L. Druin, et al.,
204/130 [IMAGE AVAILABLE]

33. 3,756,607, Sep. 4, 1973, **GOLF** BALL HAVING IMPROVED PHYSICAL
PROPERTIES; Eugene M. Lukinac, et al., 273/218; 260/998.14, 998.18; 273/DIG.4, DIG.10, DIG.16, DIG.29; 524/523 [IMAGE AVAILABLE]

=> d 10 kwic

US PAT NO: 5,095,430 [IMAGE AVAILABLE] L1: 10 of 33
TITLE: **Golf** cart computer with cartridge storage

ABSTRACT:
A **golf** cart computer for installation in a **golf** cart. The computer contains a display screen for showing graphically the details
and features of each hole of a **golf** course. It has memory for containing the graphic details of the course and for containing scores of
each player. The. . . slot for a memory cartridge which can be transferred to a stationary printing station so that the driver of the
golf cart can receive a print-out of the accumulated scores therefrom. In one version of the invention, a light pen is. . . locations on the display screen, and the computer is capable of computing
and displaying distances between selected features of the **golf** course
including the ball.

DETD(31)

After . . . tears off his score card from the score card printer 66
in step 117. If there are side bets, each **bet** is computed on the
score card which is torn off in step 118 and the transaction is completed
in step. . .

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9415 GOLF
8253 WAG?
L2 72 GOLF AND WAG?

=> s l2 and golf cart
9415 GOLF
7000 CART
737 GOLF CART
(GOLF(W)CART)
L3 6 L2 AND GOLF CART

=> d 1-6